STRONG
DIGITAL TV

Picture similar

# Digital Satellite Receiver with Digital Recorder SRT 6365 PDR

## User Manual

Fig. 1

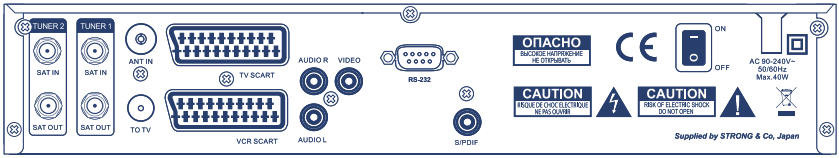


Fig. 2

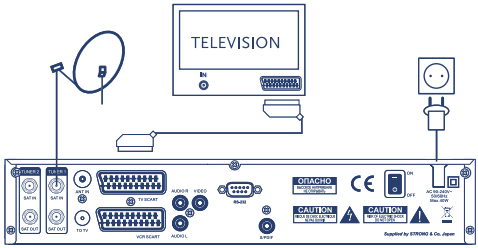


Fig. 3

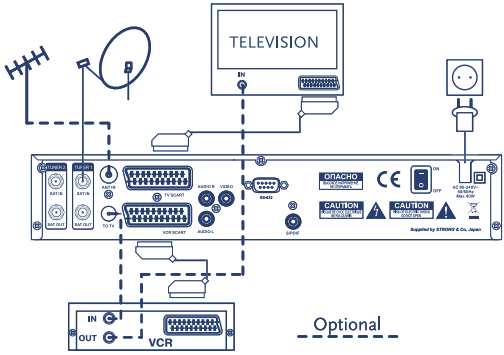


Fig. 4

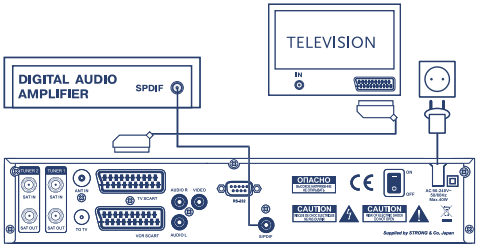


Fig. 5

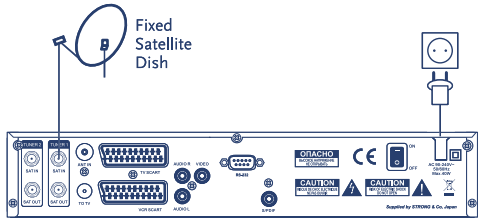


Fig. 6

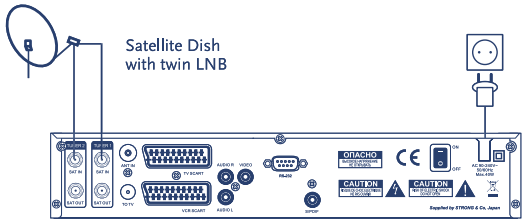


Fig. 7

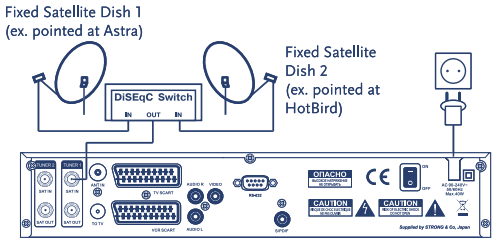


Fig. 8

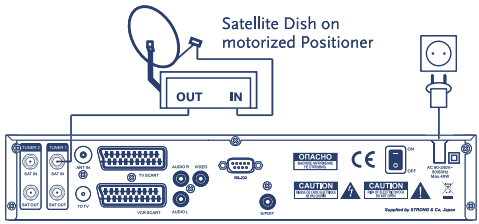


Fig. 9

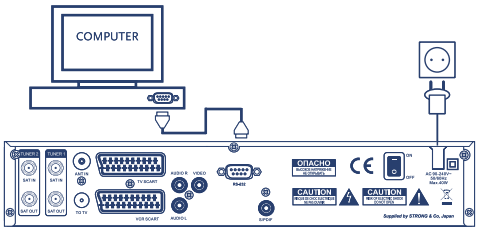


Fig. 10

STRONG DIGITAL TV

English

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HOTLINE
0180 500 75 43*
* €0.14/Min. from German land line
0820 400 150*
* €0.12/Min. from Austrian land line
0826 029 928*
* €0.14/Min. from French land line
per February 2008

# 1.0 INTRODUCTION

## 1.1 Safety Instructions

**DO NOT INSTALL YOUR RECEIVER:**

- In a closed or poorly ventilated cabinet; directly on top of or under any another equipment; on a surface which might obstruct the ventilation slots.

**DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:**

- To direct sunlight or near any other equipment that generates heat; to rain or intense moisture; to intense vibration or to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electrical shock. Do not touch the power cord with wet hands. It may cause an electric shock.
- Never open the cover. It is dangerous to touch the inside of the receiver due to high voltage, currents and possible electrical hazards. Your warranty will be void if the receiver has been opened.
- When the receiver is not used for a long period of time, you should switch OFF the receiver (Power Switch) and unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, only after disconnecting from the main power supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

**Safety Precautions**

- Do not open the receiver cover, as you will be exposed to a shock hazard. It will also void your warranty. Refer all maintenance or servicing to suitably qualified personnel
- When you are connecting the cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

## 1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

## 1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the SCART cable and outdoor components are in a good condition and the SCART connections are well shielded

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

**WARNING:** Indicates warning information.

**TIPS** Indicates any other additional important or helpful information.
**MENU** Represents a button on the remote control or the receiver (Bold Character)
*Move to* Represents a menu item within a window. (Italic Character)

## 1.4 Features & Accessories

- For all digital Free-To-Air TV and Radio programmes via satellite
- Recording without external video recorder – integrated 160 GB hard disk for up to 120 hours (approx. 80 films)
- 2 Common Interface slots compatible to most common Conditional Access Modules (Cryptoworks, Viaccess, Conax, etc.)
- Twin Tuner Technology: Watch one TV programme, keep an eye on another channel (with PIP function), record up to three TV programmes at the same time!
- PIP (Picture In Picture) function supported
- Time shift and Instant recording supported
- USB port* – play video and music from your USB stick, digital camera or camcorder, record and playback TV programmes to USB stick or external hard disk
- 4 000 channel memory capacity for 64 satellites
- 4 Favourite lists for TV and Radio
- Fast channel zapping: sorting by first letter of channel name
- VFD Display showing channel number and name or current time
- Audio and Video in DVD quality and Dolby Digital
- Mosaic – 4 or 9 TV channels in overview
- Zoom functions for TV pictures
- 8 Timers for recording with 3 modes (daily, weekly, once)
- Electronic TV Programme Guide for present/following event information and up to 7 days for on screen programme information
- Teletext via VBI & OSD
- Multi-lingual subtitling and audio track support**
- Multi-lingual support on screen menu (OSD)
- Set-up support for first time installation and user-friendly menu
- Digital sound through coaxial output (S/PDIF)
- Integrated RF Modulator

- Parental lock function for menu and selectable per channel
- Edit functions for TV or Radio programme name and satellite name
- Future-proof: Software update via satellite (OTA)
- Signal bars for satellite and digital transponders
- Automatic, network and manual channel scan options
- Power on with last viewed or preferred channel
- 3 Games (Boxman, Tetris, Snake)
- User-friendly remote control with coloured function buttons
- Separate power switch
- Supports DiSEqC 1.0, DiSEqC 1.2 and GOTO X
- **Connections:** 2 x SAT IN, 2 x SAT OUT, ANT IN, TO TV, 1 Scart TV (RGB/CVBS), 1 Scart VCR (CVBS), 3 RCA (Audio L & R, Video), S/PDIF, Serial Port RS-232, USB, power switch

* Compatible to the most popular USB-Storage devices

** Availability dependant on broadcaster

**Accessories:**

- User Manual
- 1 Remote control unit
- 1 short Coax cable for loop-through
- 2x Batteries (AAA type)

**Note:** The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries.

# 2.0 YOUR RECEIVER

## 2.1 Front Panel

*Figure 1*

| | |
|---|---|
| **1. STANDBY** | Power On/Standby button |
| **2. VOL-/VOL+** | Increase/decrease volume level |
| **3. CH -/CH+** | Channel Up/Down buttons |
| **4. MENU** | Displays Main menu |
| **5. OK** | Confirm selection |
| **6. REC** | Start record of current channel |
| **7. MODE INDICATOR** | RED light indicates that the receiver is in STAND-BY mode.<br>GREEN light indicates that the receiver is in AWAKE mode. |
| **8. 4 digits display** | In STAND-BY mode current time is indicated.<br>In AWAKE mode is current channel number or current time (as selected in system set-up) indicated. |
| **9. VFD display** | In AWAKE mode is the current channel name displayed. |
| **10. Common interface slots*** | Insert your common interface modules to this slot in order to have access to appropriate encrypted channels. |
| **11. USB connector*** | Use this connector to connect USB media storage device to your receiver. |

* Compatible to the most popular USB-Storage devices

## 2.2 Rear Panel

*Figure 2*

**1. SAT IN (Tuner 1 & 2)**

To connect the coaxial cable from your LNB on the satellite dish or one of the SAT OUT connectors to this connector.

**2. SAT OUT (Tuner 1 & 2)**

To connect SAT IN from other Tuner with loop cable.

**NOTE:** connection of SAT IN and SAT OUT depends from antenna installation and described in details in part **3.3** of this manual.

**3. ANT IN**

To connect your aerial antenna or cable TV using coaxial cable.

**4. TO TV**

If you do not use a SCART cable to connect your receiver to your TV, or if you have connected a cable to the ANT input, you will have to use this connector to connect the receiver to your TV by using a coaxial cable. You have to setup channel and system of modulation as described in part **5.2.5**

**5. TV SCART Connector**

Use this connector to connect your receiver with your TV set using a SCART cable.

**6. VCR SCART Connector**

Use this connector to connect your receiver to your video or DVD recorder using a SCART cable. Video and Audio signals of your video or DVD recorder will now be looped through your receiver to your TV set.

**7. S/PDIF Digital audio output**

Use this optical output to connect your receiver to the input of your digital audio amplifier.

**8. RS-232 Serial Port**

This serial port can be used to connect your PC to your receiver in order to download new software versions to it. Therefore use a cross cable RS232. Additionally you can up/download channel lists. An update and channel edit tool for this purpose is available on our webpage. More information on www.strong.tv

**9. Power ON/OFF Switch**

In order to use your receiver you have to switch on the main power switch. If you don't use your receiver for a long period of time than switch of the receiver with this switch.

**10. Power Cord**

Your receiver requires a voltage of 90 - 240 V AC (Auto-selectable), 50/60Hz ±5%. Make sure to check the power specification before connecting your receiver to the wall outlet.

## 2.3 Remote Control Unit

Turns the receiver On/Standby.

Mutes audio output of the receiver.

**REW** Fast rewind of current playback

**PLAY** Start playback

**FWD** Fast forward of current playback

**STOP** Stop playback

**R-SLOW** Slow rewind of current playback

**PAUSE** Pause Video output.

**L-SLOW** Slow forward of current playback

**RECORD** Start recording of current broadcast

**FAV** Shows the list of favourite groups.

**SAT** Shows the list of installed satellites.

**◀▶** Increases/decreases the volume level in No-menu state. Change the setting values in specific Menu item.

**▲▼** Change the current program to the next/previous program in NO-menu state. Moves the cursor up/down in Menu state.

**OK** Activates the highlighted menu item. Displays current channel list in No-menu state.

**MENU** Shows the main menu

**EXIT** Exits from the menu or sub-menu and cancels the progressing function if applicable.

**AUDIO** Shows the list of available audio languages for the channel you are watching. Selection of audio mode Stereo, Left or Right.

| | |
|---|---|
| **TEXT** | Shows Teletext page, if available. If more then one Teletext language available then shows the list of Teletext languages the current channel supports. |
| **SUB** | Show the list of subtitled languages the current channel supports. |
| **RECALL** | Switches back to previous channel. |
| **TV/RADIO** | Switch between TV and RADIO mode. |
| **INFO** | Shows information of the current channel or playback |
| **VOL +/-** | Use to increase or decrease the receiver volume level. |
| **PAGE +/-** | Change the current program to the previous/next program in NO-menu state. In menu state changes to next/previous page in the lists. |
| **0 ~ 9** | Controls the numerical operation and especially changes program directly. |
| **PDR** | Open records organizer |
| **EPG** | View the program guide in No-menu state. |

Change position of PIP / Repeat function

Cut selected part of record into new record

Set bookmark at current playback position

Jump to bookmark

Display Picture in Picture (PIP)

Display PIP channel list

Exchange PIP and main picture

Zoom in 200% or 300%

## 3.0 CONNECTIONS

## 3.1 Connecting to TV & VCR

**Basic connection with a SCART cable (Fig. 3)**

1. Connect the satellite signal from the LNB to the SAT IN connector.
2. Connect the TV SCART connector at the back of the receiver to the SCART IN connector on your TV set

**Advanced connection of the receiver to the TV set and VCR/ DVD- Recorder (Fig. 4)**

1. Connect the satellite signal from the LNB to the SAT IN connector.
2. Connect the TV SCART connector at the back of the receiver to the SCART-IN connector on your TV set.

3. Connect the VCR SCART connector of the receiver to the SCART-IN connector on your video or DVD- Recorder

Optional:

- Connect a terrestrial antenna with an UHF coaxial lead or antenna cable to the ANT IN connector at the back of the receiver.
- Connect a coaxial cable to the TO TV connector at the back of the receiver. Connect the other end of this coaxial cable to the ANT IN connector of your VCR.
- Connect the TV OUT connector of your VCR to the ANT IN connector of your TV set with a coaxial cable.

## 3.2 Connecting to Digital Audio Amplifier

Connect S/PDIF connector at the back of your receiver to appropriated input of your digital audio set (Fig. 5).

## 3.3 Connecting to Satellite Dish

It is important to decide which type of connection between receiver and LNB will be used.
The simplest connection type is LOOP THROUGH. It will require single coaxial cable between LNB and receiver, but limit functionality of your receiver in term of simultaneously watching and recording. You will be allowed to watch and record simultaneously channels from single frequency only.
Connection type TUNER 1 & 2 is more advanced. It will require installation of TWIN LNB and two cables between LNB and receiver. This connection type will allow you to watch and record simultaneously channels from different frequencies.
Connection type SEPARATED recommended to use if you have installed antennas for more than one satellite. This connection type will allow you to watch channel from one satellite and simultaneously record channel from another satellite. With this connection type you can use different antenna connections: for example have fixed dish with single LNB connected to SAT IN of TUNER 1 and motorised dish with single LNB connected to SAT IN of TUNER 2.

**Connecting a fixed satellite dish with single LNB to your receiver (Fig. 6)**

Make your choice of which satellite you want to receive your signals from, and have your dealer aim your dish at the requested satellite. Connect a coaxial cable to your LNB and the other end directly to the SAT IN of TUNER 1 connector of your receiver. Connect one end of LOOP cable to the SAT OUT of TUNER 1 and another end of LOOP cable to the SAT IN of TUNER 2. This connection type is called LOOP THROUGH.

**Connecting a fixed satellite dish with twin LNB to your receiver (Fig. 7 )**

Make your choice of which satellite you want to receive your signals from, and have your dealer aim your dish at the requested satellite. Connect one end of coaxial cables to the outputs of your LNB and the other ends directly to the SAT IN of TUNER 1 and SAT IN of TUNER 2.
This connection type is called TUNER 1&2.

**Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch (Fig. 8)**

If you want to watch programs from more than one satellite (For example from ASTRA and from HOT BIRD) it is advisable to use fixed dishes and a DiSEqC 1.0 switch. Have your Dealer aim the dishes at the

requested satellites and connect the LNB's with coaxial cables to the input connectors of the DiSEqC 1.0 switch. Connect the output connector of the DiSEqC 1.0 switch to the SAT IN of TUNER 1 connector at the back of your receiver. Connect one end of LOOP cable to the SAT OUT of TUNER 1 and another end of LOOP cable to the SAT IN of TUNER 2. Use connection type LOOP THROUGH.

**NOTE:** You can make duplicated installation of 2 or more satellites. Use for this purpose TWIN LNB on the dishes and setup connection type TUNER 1&2. (Connection diagram shown on Fig. 9)

**Connecting a dish on a motorized positioner to your receiver (Fig. 9)**

Another possibility for watching programs from multiple satellites is by mounting a dish to a motorized DiSEqC 1.2 Positioner. Have your dealer mount the dish to the Positioner, set the correct angle of the elevation and let him set the centre point for your Positioner. Connect the LNB with a coaxial cable to the LNB input connector of the Positioner, and connect the output of the Positioner to the SAT IN connector of TUNER 1 at the back of your receiver. Connect one end of LOOP cable to the SAT OUT of TUNER 1 and the other end of LOOP cable to the SAT IN of TUNER 2. Use connection type LOOP THROUGH.

## 3.4 Connecting to computer via serial cable for downloading software

Connect the RS232 connector on the back of your receiver to the Serial port of your computer using a serial cable (Fig. 10). Instructions how to download software can be found on our website www.strong.tv (support > download). There you can find as well a nice channel edit tool for preparing your own Favourite- and Channel lists. However, this receiver can download new system software automatically by satellite.

# 4.0 STARTING UP FOR THE FIRST TIME

Ensure that your satellite receiver is correctly connected to your TV and Satellite dish. Make sure your satellite signal has the best possible quality. If you are not sure about this then ask your local STRONG dealer to check your installation or satellite signal. Confirm that the power plug of receiver is plugged into the wall outlet. Turn on the receiver. The Installation Wizard will appear on screen when you power on the receiver for the first time.

It is recommended that you do first time installation by following the Installation Wizard step by step. It will help you easily achieve system configuration and channel installation. . Advanced users can skip the wizard by pressing the **MENU** button and set-up channels using the *Installation* menu.

## 4.1 Language Selection

Use ▲▼ buttons to select your preferred language and press **OK** to confirm. The *SET-UP WIZARD* menu will appear. It describes functional buttons that should be used during installation. Once you've read the information press **OK** to continue.

## 4.2 Select connection type

Use the ◀▶ buttons to select your connection type. Make sure to select connection type according to the antenna installation. Please notice the help text on the screen.

## 4.3 Select Satellite

The Installation Wizard is preconfigured for easy installation of Astra 1 (19.2E) or Hotbird (13E). For these satellites LNB configuration is predefined as Universal LNB connected to the receiver via DiSEqC 1.0 switch input 1. If your dish is aimed to Astra 1 (19.2E) or Hotbird (13E) then select corresponding satellite from the list (future steps of installation are described in **4.3.1**). If your dish is aimed to another satellite or you have a multiple dish installation then select Other (future steps of installation are described in **4.3.2**).

**4.3.1** After selection of ASTRA 1C, 1E (19E) or HOT BIRD (13E) menu ***WIZARD-ANTENNA ADJUSTMENT*** will appear. Adjust your dish position in small steps until the signal strength and quality bars turn yellow or better green.
Try to reach the maximum possible strength and quality level. Once you are sure the signal cannot be improved, fix the dish on this position and press **OK** on your remote control to start the channel search. After finished search, the first found channel will be displayed on screen. If you select *"Deutsch"* or *"Deutsch / Austria"* together with ASTRA or HOT BIRD you will see first programmed channel.

**4.3.2** If you select *Other* satellite then menu Channel set-up will be displayed on screen. Using ▲▼ buttons select the *Satellite* item and press **OK** to display list of satellites. Use ▲▼ buttons to select satellite of your choice and press **OK**. Using ▲▼ buttons select *Dish number* item and using ◀▶ buttons select dish number. Press **OK** to setup dish parameters.
In Dish setup menu configure settings of the LNB, DiSEqC switch and Antenna mode. Please refer to chapter "**5.2.2 Dish set-up**" for detailed information.
If you use a fixed dish, then press the **RED** (Auto Scan) button on your remote to start channel search. Once the channel search process is finished the receiver will switch to the first found TV channel.
If you use dish mounted on DiSEqC 1.2 or GOTO X Positioner then select *Dish position* item and press **OK**.
If you use DiSEqC 1.2 Positioner then Positioner Set-up menu will be displayed. Please refer to *Setup dish position* description in chapter 5.2.1.1
If you use GOTO X Positioner then GOTO X setup menu will be displayed. Please refer to GOTO X setup description in chapter **5.2.4**
After setting up dish position press **RED** (Autoscan) button on your remote control to start channel search. Once the channel search process is finished the receiver will switch to the first found TV channel.
All other functions of the receiver can be controlled across the *Main menu*.

# 5.0 MAIN MENU

All the important settings and features of your receiver can be operated through Main Menu. It consists of following sub-menus: *"Channel Organiser"*, *"Installation"*, *"Timer"*, *"Games"*, *"Common Interface"* and *"Recorder"*.
If in TV mode, press the **MENU** button to open the main menu.

## 5.1 Channel Organiser

In *MAIN MENU* screen, press ▲▼ to select ***Channel Organiser***, and then press **OK** or ▶ to enter the ***Channel Organiser*** menu, which consists of the following sub-menus *"Sort Channels", "Add to Favourites"* and *"Edit Channels"*.

### 5.1.1 Sort Channels

In this menu, you can sort channels by a specific order or move channels to particular position.

**Note:** Channels are sorted in the selected channel list only. Sorting of the channels in one list do not change order of the channels in another list. I.e. sorting of the channels in list "All satellites" would not change order of the channels in list of particular satellite and vice versa.

**Sort (Red button)**

Press **RED** button to select one of available sort options.

| | |
|---|---|
| *"Alphabet A-Z"* | channels will be sorted in alphabet order. |
| *"Frequency Low-High"* | channels will be sorted from lowest to highest frequency. |
| *"First FTA"* | All Free-To-Air channels will be first placed in the list, Scrambled at the end. |
| *"First scrambled"* | All Scrambled channels will be first placed in the list, Free-To-Air at the end. |

If you want to store the new order of channels press **Yellow** (Save) or **Blue** (Save & Exit) button. If you do not want to store result of sorting press **EXIT** button. Message "Do you want to save data?" will appear on screen. Press Exit to discard changes or **OK** to save new order.

**Move (Green button)**

Press the **Green** (Move) button to sort channels manually. Use ◀▶▲▼ buttons to select the channel which you want to move. You can also enter channel number by using the **Numeric** buttons on your remote control. Press the **OK** button to confirm channel selection. Now, you can select the new position of the channel using ◀▶▲▼ buttons or enter position number using **Numeric** buttons. Press **OK** button to confirm new position of the channel. Repeat these steps for all channels that you want to move.
To save new order of the channels press **YELLOW** (Save) or **BLUE** (Save&Exit) button.

### 5.1.2 Add to Favourites

Enter to this menu in order to prepare lists of your favourite channels.
Use ▲▼ buttons to select channels of your choice.
Use ◀▶ buttons to select favourite group where to add selected channel.
Press **OK** button to mark/unmark channel to selected favourite group. To rename Favourite group press **RED** button, select group that you wish to rename and press **OK**. On screen will appear keyboard. To delete current name of the group select Backspace (◀) symbol and press **OK**. To enter new name use ◀▶▲▼ and **OK** buttons. Press **RED** button to save new name or press **GREEN** button to discard changes.

### 5.1.3 Edit Channels

In this menu you can edit channel name, lock and delete channels.

**Edit**

Press **RED** button to edit name of the channel. On screen will appear keyboard. To delete current name select Backspace (◀) symbol and press **OK**. To enter new name use ◀▶▲▼ and **OK** buttons. Press **RED** button to save new name or press **GREEN** button to discard changes.
Channel name will be changed in all channel lists.

**Lock**

Lock function can be used in order to block access to some channels. Press **GREEN** button to lock/unlock channel of your choice. Locked channel will be marked by "Lock" symbol. In order to watch locked channel you will need to enter PIN code. (Default PIN: **0000**)
Channel will be locked in all channel lists.

**Delete**

Pressing **Yellow** button will mark selected channel to delete. To unmark channel select it and press **Yellow** button again. Channel(s) will be deleted after you press Blue button. Be aware: after pressing Blue button channel(s) will be deleted from all channel lists. To cancel delete operation you can press **Exit** button. Message "Do you want to save data?" will appear on screen. Press **Exit** to cancel data save or **OK** to confirm data save. Press **EXIT** to discard changes or **OK** to confirm.

## 5.2 Installation

The Installation menu contains following sub-menus:

| | |
|---|---|
| *"Channel set-up"* | Setup channels from selected satellite(s) |
| *"Dish Set-up"* | Setup configuration of your dish(es), |
| *"Edit satellites"* | Edit predefined satellites, their transponders or add new satellite(s), |
| *"GOTO X setup"* | Setup your location in order to use GOTO X function of Positioner |
| *"System setup"* | Configure system settings- more in chapter **5.2.5** |
| *"Parental lock"* | Define new PIN code or lock access for the menu |

### 5.2.1 Channel set-up

From this menu you can setup channels from satellite(s) in several modes, access to *Dish setup menu, Positioner setup* (if used).

| | |
|---|---|
| *Satellite:* | Move focus of the menu to this item. Press **OK** to display list of available satellites. Select satellite of your choice and press **OK**. If satellite doesn't exist in the list you should add it first using *"Edit satellites"* menu. |
| *Dish number:* | Move focus of the menu to this item. Use ◀▶ buttons to select dish number to which above selected satellite belongs to. Press **OK** button to enter to *Dish setup* menu (see **5.2.2**). Dish number "--" means that selected satellite do not belongs to any dish. |

*Dish position:* This item value depends from the mode of the Dish.
If mode of selected dish is *"Fixed"* then this item is not selectable
If mode of selected dish is *"DiSEqC 1.2"* then value can be *"Not stored"* (in case dish position for selected satellite was not stored") or in range from 1 to 64 if position has been stored. Select item and press **OK** to setup Positioner. For more information about Positioner setup see chapter **5.2.1.1**.
If mode of selected dish is *"GOTO X"* then value is *"GOTO X"*. Select item and press **OK** to setup

*GOTO X function:* more details read in chapter **5.2.4**.

*Transponder:* Move focus of the menu to this item and press **OK**. List of transponders of selected satellite will appear at right side of the screen. You can select transponder in order to check signal strength and quality of reception. Transponder list contains predefined transponders. If you need to modify transponder list please use menu *"Edit satellites"* as described in chapter **5.2.3**. If you need to scan specific transponder then use Manual scan as described in this chapter below.

*Network search:* If this item is set to *"OFF"* then the receiver will search for the channels that are available in the preset transponder list of the selected satellite. If this item is set to *"ON"* then the receiver will search for additional information about available transponders from the satellite. This option is useful to get new channels from transponders which were added to the satellite later.

**NOTE:** ASTRA and HOT BIRD (partially) provide a NIT (network information table), but this service is not available at every satellite.

*Search for:* You can select type of the channels that will be installed to your receiver.
If *"All channels"* is selected, then the receiver will install Free-To-Air and Scrambled channels.
If *"Scrambled"* is selected, then the receiver will install only Scrambled channels.
If *"FTA"* is selected, then the receiver will install only Free-To-Air channels.
Once you've completed all settings you can start the channel search process.
Press the **RED** button to setup channels from all transponders of the satellite;
Press the **GREEN** button to setup channels from the selected transponder;
Press the **YELLOW** button to enter the *"Manual channel search"* menu to search manually for channels on a specific transponder or to setup a single channel with known Video and Audio PIDs.

**Manual setup of channels**

In Manual channel search menu you can setup all channels from specific transponder or single channel.

**To setup all channels from specific transponder:**

*Satellite:* Indicates name of the satellite where channels will be searched
*Frequency:* Use Numeric buttons to enter the frequency of a transponder
*Polarisation control:* Use ◀▶ buttons to select polarisation of transponder
*Symbol rate:* Use **Numeric** buttons to enter symbol rate value
*Network search:* Use ◀▶ buttons to select ON or OFF
*Search for:* Use ◀▶ buttons to select type of channels to be installed
Press **RED** (Search) button to start channel search.

**To setup single channel:**

Press **GREEN** (PID) button on the remote control.

| | |
|---|---|
| *Satellite:* | Indicate name of the satellite where channels will be searched |
| *Frequency:* | Use **Numeric** buttons to enter frequency of transponder |
| *Polarisation control:* | Use ◀▶ buttons to select polarisation of transponder |
| *Symbol rate:* | Use **Numeric** buttons to enter symbol rate value |
| *Video PID:* | Use **Numeric** buttons to enter value of Video PID in decimal |
| *Audio PID:* | Use **Numeric** buttons to enter value of Audio PID in decimal |
| *PCR PID:* | Use **Numeric** buttons to enter value of PCR PID in decimal |

Press **RED** (Search) button to start channel search.

**NOTE:** At www.lyngsat.com, for example you can find detailed channel data.

**5.2.1.1 Positioner setup**

If in Dish setup menu you have configured Dish mode as "DiSEqC 1.2" then you have to setup position of the dish to each satellite that you want to install.

In *Channel setup* menu move menu focus to Dish position item and press **OK** button on remote control. The menu *Positioner setup* will appear on screen.

| | |
|---|---|
| *Satellite:* | Displays the satellite name. |
| *Transponder:* | Use ◀▶ buttons to select reference transponder, receivable in your location, to see the current signal parameters. |
| *Movement speed:* | Use ◀▶ buttons to select between Slow and Fast. Slow speed allows you to fine adjust position of the dish. Fast speed can be used to adjust dish position roughly. |
| *Move:* | Use ◀▶ buttons to move dish to the East/West direction |
| *Centre position:* | If you press **OK** button while menu focus is on this item then dish will be turned to centre position, which corresponds to true South direction. |
| *Limits:* | Use ◀▶ buttons to Enable or *Disable software* limits of your positioner. |
| *Set limit:* | Use ◀▶ buttons to select *East or West* limit of dish movement range. |

**Step by step recommendations of position setup.**

1. Select reference transponder in order to check signal strength and quality during position setup.
2. If you do not know current direction of your dish then move menu focus to Centre position item and press **OK**. Dish will be turned to true South. Knowing your location longitude you may understand direction where necessary to move dish in order to reach position of selected satellite. For example: your longitude is 5° East and you want to setup dish position for ASTRA 1C, 1E (19° East). Then, from centre position, you need to move dish to East direction by pressing to ◀ button. If your longitude is 25° East then, in order to setup dish position for ASTRA 1C, 1E (19° East), you need to move dish in West direction (from centre position) by pressing to ▶ button.
3. To setup roughly position of the dish set Movement speed to Fast. Then move menu focus to Move item of the menu and by short presses to ◀ or ▶ buttons move dish to necessary direction. Check signal strength and quality indicators. Once levels start increasing - set Movement speed to Slow and keep adjusting dish position until get best possible values.

4. Once you are sure that dish is fine adjusted press **YELLOW** (Store) or **BLUE** (Store&Exit) button. Dish position for selected satellite will be stored.

### 5.2.2 Dish set-up

In this menu you can setup parameters of your dish(es).

*Dish number:* Use ◀▶ buttons to select number of the dish. This number used in Channel setup menu to create a link between satellite and corresponded dish configuration.

*Connection type:* Use ◀▶ buttons to select connection type. It is advisable to not change this value in case you have installed channels. Before change the value please careful read chapter 3.3 of this manual.

*Tuner:* This option is available to select in case if Connection type is *"Separated"*. Use ◀▶ buttons to select tuner number which corresponds to the selected dish number.

*LNB type:* Use ◀▶ buttons to select type of LNB. If you set type to *"CUSTOM"* then you should enter values of Local Oscillator Frequencies in LO frequencies menu item.

*LO frequencies:* This menu item selectable only in case LNB type is *"CUSTOM"*. Press **OK** button and using Numeric buttons enter values in appeared dialog box.

*Band control:* Use ◀▶ buttons to select value. Set to Auto in order receiver automatically select band by sending 22 kHz control signal. Set to ON in order receiver generate 22 kHz control signal continuously, or set to OFF in order to disable 22 kHz control signal.

*Polarisation control:* Use ◀▶ buttons to select value. Set to *Auto* in order receiver automatically control polarisation. Set to 13V or 18V in order receiver supply LNB with selected power, or set to OFF in order to disable LNB power.

*Switch type:* If you use DiSEqC switch the select appropriated type.

*Switch input:* Select input number to which the LNB is connected.

*Dish mode:* Use ◀▶ buttons to select mode between Fixed, DiSEqC 1.2 and GOTO X.

### 5.2.3 Edit satellites

In this menu you can edit satellite's name, angle, location and transponder, as well as add new satellite.
Press **RED** button to edit satellite's properties.
Press **GREEN** to add new satellite.
Edit existing satellite and add new satellite functions are identical.

*Name*: Press **OK** button to edit name of the satellite. On screen will appear keyboard. To delete current name select Backspace (◀) symbol and press **OK**. To enter new name use ▲▼◀▶ and **OK** buttons. Press **RED** button to save new name or press **GREEN** button to discard changes.

*Angle:* Use **Numeric** buttons to enter value of orbital position of the satellite.

*Location:* Use ◀▶ buttons to select East or West location of the satellite.

*Transponder table:* Press **OK** button to enter to edit transponder table menu. In this menu use **RED** button to edit parameters of selected transponder, **GREEN** button to add new transponder or **YELLOW** to delete selected transponder.

To save changes press the **YELLOW** (Save) or **BLUE** (Save & Exit) button.

**5.2.4 GOTO X set-up**

In this menu you should set your geographical location, if your use positioner and it supports GOTO X.
Use ▲▼ buttons to navigate in the menu.
Use **Numeric** buttons to enter values. Use ◀▶ buttons to select an option.
To save changes you have made press **YELLOW** (Save) or **BLUE** (Save&Exit) button.

**5.2.5 System set-up**

In this menu, you can configure the system such as *Language select, TV/VCR settings, OSD settings, Time settings*. As well from this menu you can define *Power On channel*, update software using *Software Update* menu, get *Information* about software version installed in your receiver and do a *Factory reset.*

**Language select**

Select Menu language, preferred Audio and Subtitle languages.
Use ▲▼◀▶ buttons to move the menu focus and select an item. Use **OK** button to confirm selection.

**TV/VCR settings**

To set TV standard (PAL, SECAM, NTSC or Auto), Aspect conversion (Letter Box or Pan&Scan), TV format (4:3 or 16:9), Scart mode (RGB or CVBS), UHF standard (NTSC, PAL BG, PAL I, PAL DK) and UHF channel (21 ~ 69), press ▲▼◀▶ buttons to move the cursor and **OK** to confirm selection.

**OSD settings**

To set Banner duration (how long information banner will be displayed on screen), Transparency level of the menu. Select Zapping mode in order to change appearance of picture during channel change. For CAM messages appearance (On or OFF), use ▲▼◀▶ buttons to move the cursor and **OK** to confirm selection. If CAM messages set to OFF then information messages generated by Conditional Access Module would not be displayed on TV set screen. If set to ON then all information messages from CAM will be displayed on TV set screen.
It is advisable to set CAM messages to OFF in order to avoid messages appearing during navigation between channels.

**Time settings**

If a broadcaster provides GMT, you can set the time using GMT, or set the time by yourself. If the GMT usage is ON then current time is set automatically. If your broadcaster provides correct time offset your receiver will change summer/winter time automatically.
If GMT Usage is set to *OFF, Set Data* and *Set Time* item are displayed.
Time display: select “Stand-by only” to display time on front panel indicator only while receiver is in stand-by mode. Select “Always” to display time on front panel indicator not depending from receiver mode. In this case channel number on front panel indicator would not be displayed.

**Power On channel**

Use ▲▼ and **OK** buttons to select *“Last viewed”* to awake receiver with the last watched channel or to

select *"Fixed channel"* and define channel which should be displayed first every time when receiver awake from stand-by.

**Software update**

Select this option in order to update your receiver with the latest software version. Software update service is available from satellites ASTRA 1C, 1E, 1F at 19E and HOT BIRD 1, 2, 3, 4 at 13E.

If your antenna is aligned to ASTRA 1C, 1E, 1F at 19E then enter following parameters:

*Frequency:* 12603; *Polarity:* H (Horizontal); *Symbol rate:* 22000

If your antenna is aligned to HOT BIRD 1, 2, 3, 4 at 13E then enter following parameters:

*Frequency:* 12476; *Polarity:* H (Horizontal); *Symbol rate:* 27500

Press **RED** (Start). The receiver will check availability of software update and propose to update software if new version is available. Follow future instructions displayed on screen. After software update process receiver will switch on a last watched channel automatically.

**Note:** During software download process video output of the receiver will be turned off. Progress of software download will be displayed on front panel indicator.
Availability of the software update is subject of local broadcast condition and may not work in all countries. Contact your vendor to find out more about this function.

**Warning:** **Never switch off power or disconnect the receiver from the antenna/main power during update process!**

**Information**

Display the information about software version installed in the receiver.

**Factory reset**

This will delete all user settings and installed channels. Receiver will restart with Installation Wizard menu.

**Note:** Information stored on your hard disk would not be deleted if your reset your receiver to the factory default. Use *"Format HDD"* option from *"Recorder"* menu if you wish to erase all data from the hard disk.

**5.2.6 Parental lock**

In this menu, you can set menu lock status (Disabled or Enabled) and change the PIN code.
To change PIN code you will have to enter current PIN code. Use **[0..9]** buttons to enter new PIN code and confirm it. If Menu lock is enabled then PIN code will be required in order to access receiver settings.
The default PIN code is 0000.

## 5.3 Timer

You can set timer functions for designated actions, such as timer based recording, wake up or switch to Standby.

*Timer number:* Use the ◀▶ buttons to select.

*Timer status:* Use ◀▶ buttons to Enable or Disable selected timer.
If selected timer status is Enabled the additional items are available to select.

| | |
|---|---|
| *Action:* | You can select between *"PDR Record"* (recording on HDD); *"Power On"* (receiver powers on at the designated date and time); *"Duration"* (receiver switches on, at the designated date and time, displays the channel and then switches off after a designated duration) and *"Power Off"* (receiver switch to Standby). at the designated date and time. For every action you select you can program designated date and time |
| *Cycle:* | You can set the cycle of the selected action in the timer mode (Once, Every day or Weekly). |
| *Start Date/Day of Week:* | You can set the starting date or days of the week for the timer action. Press **OK** to display calendar or list of the week days. |
| *Start Time:* | Use **Numeric** buttons to enter the start time, which should be at least 3 minutes later than the current time. |
| *Duration:* | Use **Numeric** buttons to enter the duration, which should be at least 5 minutes, the timer should be active. |
| *Channel name:* | Press the **OK** button to display the current channel list and use the ▲▼◀▶ buttons to select a channel which should be shown/recorded. In the timer menu the receiver displays *"All channel list"*. You can use the **TV/RADIO** button to select between TV and Radio channels. |

## 5.4 Games

There are three games: Tetris, Box and Snake.

### 5.4.1 Tetris

◀▶: Move block to left or right.
▼: drop block.
▲/**OK**: Rotate block.

### 5.4.2 Box

▲▼◀▶: Move the boxman and push the box.

### 5.4.3 Snake

▲▼◀▶: Change direction of snake movement.

## 5.5 Common Interface

When Conditional Access Module is inserted you can enter this menu and get information about your CAM, smart card subscription status, manage maturity rating and PIN codes of the smart card. Content of the menu depends on module type. Please refer to the user manual of your module.

#### 5.5.1 Dual Descramble

With this function you can configure the settings of scrambling capacity from smart card and Conditional Access Module. Some smart cards and CAM's allow to open more then only one scrambled channel from same transponder. Please, ask your dealer for details and possibilities.
If your module and card allow to descramble two channels then you can watch one scrambled channel on TV screen and another scrambled channel on PIP, or watch one scrambled channel on TV screen and record another scrambled channel as FTA.
Use the ▲▼ cursor buttons to select *Dual Descramble* and press **OK**. Use the ◀▶ cursor buttons to select *Enabled* or *Disabled* for the settings of scrambling capacity.
To save changes press the **YELLOW** (Save) or **BLUE** (Save & Exit) button.

## 6.0 RECORDER

## 6.1 Records Organiser

The Records Organiser lets you manage your TV records, MP3 Files or JPG pictures.
You can copy them onto an USB device or into another folder, or copy new ones from USB to your receiver hard disk. You can create or delete folders, rename or delete files.

#### 6.1.1 Digital Video Record (DVR)

The PDR view of the Records Organiser shows all your recorded TV broadcasts. If you want you can rename, delete, copy (to another folder or USB device) or lock them. If you lock a record, than you will need to enter the PIN code each time you want to playback this record.
Use the ◀▶▲▼ buttons to navigate. Press **OK** to open a folder or start playback, press PDR to switch between PDR, MP3 or JPG mode. Press **EXIT** to leave the menu.
Use the coloured buttons to perform the associated action.
To enter to an upper folder move menu focus to folder name ".." and press **OK**. If you have inserted an USB media (such as USB storage, digital camera) and wish to play files from this media – select folder "..", then in the list of folders select your external media (the will be USB1 or USB2).
Play selected record – simply press **OK** button.

| | |
|---|---|
| *Rename record or folder:* | Press **RED** button. A keyboard will appear on screen. To delete current name select Backspace (◀) symbol and press **OK**. To enter new name use ◀▶▲▼ and **OK** buttons. Press the **RED** button to save new name or press the **GREEN** button to discard changes. |
| *Delete record or folder:* | Press **GREEN** button. Dialog to confirm delete operation will appear on screen. Please note, if you delete a folder then this will delete all files in a folder. |
| *Lock record:* | Press **YELLOW** button. A PIN code will be required to play locked record. |
| *Create a folder:* | Press **BLUE** button (Option) then press **RED** button (Create folder). |
| *Copy file or folder:* | Move menu focus to a record or folder that you wish to copy. Press **BLUE** button (Option) then press **GREEN** button (Copy to folder). In appeared dialog select folder of destination and press **RED** button. |

### 6.1.2 MP3 Player

The MP3 view of the Records Organiser is divided into two separate parts. The folder and file view on the left side and the MP3 Player on the right side of the screen.

Use the ◀▶▲▼ cursor buttons to navigate. Press **OK** to open a folder or add a file to the play list, press **PDR** to switch between PDR, MP3 or JPG mode. Press **EXIT** to exit the menu.

Use the ▲▼ buttons to navigate between records and ◀▶ buttons to change between list of records and play list.

Use the coloured buttons to perform the associated action.

If the cursor is in the play list (right side of the screen) than the function of the coloured buttons are different than if the cursor would be in the folder view.

*Playback:* To start playback, move the cursor into the play list and select a file you want to listen to. Then press **OK** to start the playback. Below the play list some additional information will be displayed. That information is read from the ID3 Tag of the mp3 file.

*Stop:* To stop the playback press the **GREEN** button.

*Shuffle:* To activate the shuffle function press the **YELLOW** button. If shuffle is activated then the receiver will playback all files from the play list in random order but each file will only be played once.

*Repeat:* To activate the repeat function press the **BLUE** button. If repeat is activated then the receiver will not stop playback at the end of the play list, but will start from the beginning again.

You can turn on shuffle and repeat at the same time. In that case playback will go on in random order till it is stopped or repeat is deactivated.

### 6.1.3 JPEG Picture Viewer

The JPG view of the Records Organiser shows your collection of jpg pictures on hard disk or on an external USB device. You can rename, copy (to another folder or USB device) and delete them. Use the ◀▶▲▼ buttons to navigate. Press **OK** once on a file to display the picture in the preview window, press **OK** a second time to display the picture in full screen view. Press **PDR** to switch between PDR, MP3 or JPG mode. Press EXIT to exit the menu.

Use the coloured buttons to perform the associated action.

*Slide Show:* To start a slide show of all files in the current folder press the **YELLOW** button. Screen will appear to select time interval. To exit the slide show mode press **EXIT**.

## 6.2 HDD Information

Displays information about currently installed hard disk drive such as model name (Vendor defined), serial number and HDD status.

*HDD Status:* Shows total and remaining free disk space and approximated remaining record time (calculated with average broadcast bit rate).

## 6.3 HDD Format

Formats the hard disk drive. Attention, all files will be deleted!

**WARNING:** All files will be deleted!

## 6.4 Recorder Settings

Enable or disable instant recording and HDD power save features.
HDD power save feature allows you to save energy. The HDD power will be turned off after defined time interval of HDD is not in use. For example you define HDD power save is set to 10 minutes. This means that HDD power will be turned off after 10 minutes from the moment of last use of the HDD. If Instant recording is enabled then HDD power save option is not available because receiver does a record in background of every channel you are watching.

# 7.0 WATCHING TV AND LISTENING TO THE RADIO

## 7.1 Program Guide (EPG)

EPG shows the program schedule for the current channel. Availability of EPG depends from broadcaster and may not be available for all channels.
In TV mode, press **EPG** button, the EPG Menu will appear. Screen divided to 3 main parts: at the left channel list, at the right program schedule list and bottom part provide short program description with program start-end time.
In channel list use ▲▼ buttons to choose the channel.
Use ◀▶ to switch between channel list and program schedule.

**In program schedule list:**
Use ▲▼ buttons to choose program.
Use **RED/GREEN** buttons to select previous/next day of schedule.
Use ◀▶ to switch between channel list and program schedule.
Use **YELLOW** button to display detailed program information.
Use **BLUE** button to programme timer for selected program.

**In program details:**
Use ▲▼ to scroll information in the window.
Use **Exit** to return to the list of programs.

## 7.2 Zapping and information banners

The zapping banner is displayed automatically every time when you change channel in TV mode. It provides information about current channel, list type, satellite name, time and date.
Information banner can be called up by pressing **INFO** button.
In addition to zapping banner it provides information about next program, availability of subtitles and Teletext on current channel.
The information banner can be toggled to Extended and Signal modes by pressing **RED** (Extended) and **GREEN** (Signal) buttons. In Extended mode a short description of current program (if available) is displayed. In Signal mode technical information such as transponder parameters, audio and video PIDs of current channel, signal strength and quality is displayed.

## 7.3 Channel list

To open the current channel list press the **OK** button in TV mode.
Use ▲▼◀▶ buttons to select channel and press **OK** to switch to this channel. For full screen TV mode press **OK** once more.
To change satellite press **SAT** button and select satellite from the list.
For displaying favourite channel list press **FAV** button and select favourite list. To exit from favourite mode press **TV/RADIO** button.

### 7.3.1 Fast alphabet filtering

Press **RED** (Filter) button to filter channels in alphabet order. At the right side alphabet will be displayed. Select first letter of the channel name that you need to find in the list and press **OK**.

### 7.3.2 Multi Pictures

Press **GREEN** button to choose between 4 pictures or 9 pictures. Press **OK** to confirm.

## 7.4 Selection of Audio Language

Press the **AUDIO** button on your remote control. Use ▲▼ buttons to select the audio language from the list of available tracks. Use ◀▶ buttons to select between Left, Right and Stereo audio. Press **OK** to confirm your selection. On the information banner you will see section of audio choice as a symbol. Left as ((• , Right as •)) and Stereo ((•)).

## 7.5 TELETEXT function

In channel TV mode press **TEXT** button. If Teletext is available in several languages, then select language from the list.

## 7.6 Subtitles function

In channel TV mode press **SUB** button. List of available subtitles languages will be displayed on the screen. Use ▲▼ buttons to select language and **OK** to confirm. To disable subtitles select *OFF* from the list.

# 8.0 RECORDING AND PLAYBACK

## 8.1 Start a record

To start a record of current channel press **RECORD** button on remote control or **REC** button on front panel of the receiver. You will be prompted to select device where to record (\PDR – is internal HDD, name of external storage media can be selected if it is connected) and duration of record. Continuously duration means that recording will be performed until you stop the record. If you agree with recording settings – press **RECORD** again.
During a record you can change channel to another one – recording will be continued on previous channel. You can also start a record on a second channel.

**NOTE:** While record is in progress the channel list and zapping possibilities are limited according to connection type. If your connection type is “LOOP THROUGH” and you have one record in progress then channel list will be limited to the one satellite/one polarization/

one bandwidth, i.e. if you are recording channel from ASTRA 19.2E and channel is from transponder in Horizontal polarization High band (frequency above 11700 MHz) – the channel list will displays the channels located on transponders with Horizontal polarization High band on ASTRA 19.2 satellite.

Recording of scrambled channels: there is possible limitation to record one scrambled channel and watch another one. If you are recording one scrambled channel and start to watch another channel from same operator then record will became scrambled. Later to watch record you will need to make sure that CA module with appropriated smart card are inserted to CI slot.

## 8.2 Stop a record

To stop a record press **STOP** button on remote control. You will be prompted to select (mark) record(s) that you wish to stop. By default all records in progress are selected. To you confirm selected record(s) to stop – press **OK** button. If you wish to continue some records – move menu focus to the list of records in progress and deselect record that you wish to continue, and then move focus to *"Stop selected records"* button and press **OK**.

**NOTE:** Alternatively you can press **STAND-BY** button on front panel.

## 8.3 TimeShift and Instant recoding

TimeShift and Instant recording are both features that are activated during you watch a TV broadcast. To use Instant recording you have to first turn this feature on in the recorder settings menu. You only can use Timeshift if Instant recording is turned off.

*TimeShift:* To activate TimeShift press the **PAUSE** button during you watch a broadcast. As soon as you pressed the button, the picture will be paused and the receiver starts recording the broadcast in the background and in the display the TimeShift icon will be lit. If you press the **PLAY** button or **PAUSE** again the video will be resumed from the moment where you have paused it. At the same time recorder will continue record of current live broadcast. This function allows you to watch content of the program in case you have to pay attention to something else then TV (telephone call, needs of other members of your family). You now can watch the broadcast as you would watch a video record. You can also use the **REW**, **FWD**, **R-SLOW**, **F-SLOW** buttons. If you press **STOP** the TimeShift will be stopped and you will see the actual broadcast.

Instant recording: This mode is basically the same as TimeShift, but with the exception that you don't need to press **PAUSE** to use the feature. As soon as Instant recording is activated through the menu, the receiver will start recording any broadcast you watch. This is especially useful if you missed something interesting. With Instant recording it's possible to simply rewind the broadcast and watch the scene again.

**NOTE:** Both TimeShift and Instant recording create temporary records on the HDD. After STOP (in case of TimeShift) or zapping to another channel (in case of Instant recording) this temporary record is removed from HDD.

## 8.4 Playback

There are two ways to access to your records:

- Press **PDR** button on remote control once.
- Press **MENU**, select *Recorder*, select *Records Organiser*

**NOTE:** If you have enabled HDD power save and did not use HDD (did not playback or record) for a time set in HDD power save then appearing of the record list may take a while due to receiver need to re-activate HDD.

Select a record you wish to playback and press **OK** button on remote control.
During a playback you can use following functions.

### 8.4.1 Information

Press **INFO** button in order to display information about record and playback progress. Information banner provides you following details about playback: media name (/PDR or /USB), play mode, current time and date, record's number and name, date when record has been made, record duration, audio mode, availability of subtitles and teletext, graphical interpretation of playback progress and passed playback time. As well while information banner displayed on screen you will have access to the extra functions. To remove playback information banner press **INFO** again or **EXIT**.

### 8.4.2 Fast forward and Fast rewind

Press ▶▶ button for Fast Forward or ◀◀ button for Fast Rewind. Every time when you presses these buttons playback speed increased 2 times. Available options are x2, x4, x8, x16. Indication of play speed is shown at the right upper corner of the screen. If you wish to return to normal playback speed press ▶ button.

### 8.4.3 Slow motion

Press ▮▶ (**L-SLOW**) button for forward slow motion or ◀▮ (**R-SLOW**) for backward slow motion. Every time when you presses these buttons playback speed reduced 2 times. Available options are x1/2, x1/4, x1/8. Indication of play speed is shown at the right upper corner of the screen. If you wish to return to the normal playback speed then press ▶ button.

### 8.4.4 Pause

To pause current playback simply press ▮▮ button. To continue playback simply press ▶ button.

### 8.4.5 Repeat

If you would like to play current playback in a loop then press ↻ button during playback. Appropriated symbol will be displayed on front panel indicator. To stop play in the loop press q button again.

### 8.4.6 Copy into file

This function allows you to copy a part of the recorded file into new file. During playback press **INFO** button. The playback information banner will appear on screen. Use ◀▶ buttons to scroll in the record to the point where you want to start copy and press ✂ button. Use ◀▶ buttons to scroll in the record to the point where you want to end copy and press ✂ button. Confirm copy operation with **OK** button or cancel with **EXIT**.

### 8.4.7 Place a bookmark

This function allows you to place a bookmark at the most interesting moments of a record. During playback press **INFO** button. The playback information banner will appear on screen. Use ◀▶ buttons to scroll in the record to the point where you want to place a bookmark and press 🕮 button. You will see a red dot appearing on the playback progress indicator. You can place up to 32 bookmarks in one record.

### 8.4.8 Jump to

This function allows you to jump to a designated moment in the record or jump between bookmarks in the record.

To jump to designated moment: start playback of selected record and press 🕮 button. You will be prompted to enter time in the record where to continue playback. Enter time in the format HH:MM:SS (HH – hours, MM – minutes, SS – seconds).

To jump between bookmarks: start playback of selected record, press **INFO** and press 🕮 button. The playback will continue from first available bookmark. If you wish to continue from another bookmark then press 🕮 again.

## A.1 TROUBLESHOOTING

There may be various reasons for the abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact the dealer. Don't open the receiver cover. This may cause a dangerous situation.

| Symptom | Cause | Remedy |
|---|---|---|
| The LED display on front panel does not light up. | The power cord is not plugged in. | Check that the power cord is plugged in to the wall outlet. |
| No picture or sound | Wrong connection of the Audio/ Video output of the receiver to TV.<br><br>Audio muting.<br><br>TV power off. | Connect the Audio/ Video output of the receiver to TV correctly.<br><br>Press the **MUTE** button<br><br>Turn TV on. |
| No picture | The receiver can't receive the signal<br><br>Incorrect values of some tuner parameters<br><br>Wrong direction of the dish | Check the antenna cable, replace the cable, or connect the cable to the receiver tightly<br><br>Set the values of the tuner parameters correctly in the installation menu.<br><br>Check the signal strength with a spectrum analyzer and adjust your dish correctly. |
| The remote control does not work | The batteries of the remote control are not inserted or exhausted | Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control |

## A.2 SPECIFICATIONS

**Demodulator**

Modulation: QPSK
Input Symbol Rate: 2 ~ 45 Ms/s
SCPC & MCPC signals from C & KU band satellites

**Video Decoder**

Profile level: MPEG-2 MP@ML
Input Rate: Max. 100 Mbits/s
Video Resolution: 720 x 576 (PAL), 720 x 480 (NTSC) pixels
Aspect Ratio: 4:3, 16:9

**Audio Decoder**

ISO/IEC 11172 LAYER I&II and MP3

| | |
|---|---|
| Sampling rate: | 32, 44.1, 48 kHz |
| Audio modes: | Stereo, Mono |

**Tuner**

| | |
|---|---|
| Front-End: | DVB-S |
| Input Frequency Range: | 950 ~ 2150 MHz |
| RF Input Level: | -25 ~ -65 dBm |
| LNB Power: | 13.5/18 V DC (± 5%), Max. 400 mA, Overload protected |
| DiSEqC Versions: | 1.0, 1.1 & 1.2 and GOTO X |

**System and Memory**

| | |
|---|---|
| CPU: | STi5100 @ 243MHz |
| Flash Memory: | 4 MBytes |
| DDR SRAM: | 64 MBytes |
| HDD: | 160 GBytes |

**UHF Modulator**

| | |
|---|---|
| Standards: | NTSC, PAL BG/I/DK |
| Channel: | 21 ~ 69 selectable via OSD |

**Connectors**

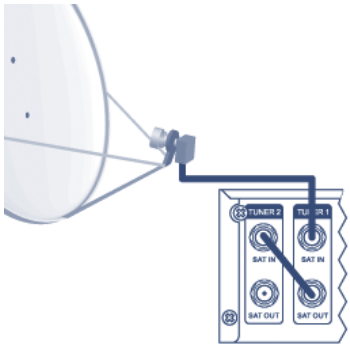
2 x SAT IN; 2 x SAT OUT
ANT IN; TO TV
2 SCARTS TV (RGB, CVBS) / VCR (CVBS)
S/PDIF: optical output
Data Interface – serial port: RS-232, 9-Pin D-Sub Male type
Separate power switch

**General Data**

| | |
|---|---|
| Input Voltage Range: | 90 - 240 V AC, 50/60 Hz |
| Power consumption: | max 50 W |
| Operating Temperature: | 0 ~ +40 °C |
| Storage Temperature: | -30 ~ +80 °C |
| Operating Humidity Range: | 10% ~ 85%, RH, Non-condensing |
| Size (W x D x H) in mm: | 340 x 280 x 70 |
| Weight: | 3 kg (with HDD) |

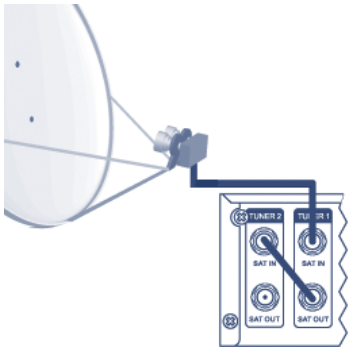
## A.3 TYPICAL INSTALLATIONS AND CONFIGURATIONS

**Single Universal LNB on fixed dish aligned to ASTRA 19.2E**



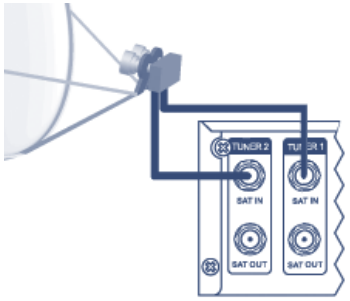

**Channel setup menu settings**
Satellite: ASTRA 19.2E
Dish number: 1
**Dish Setup menu settings**
Dish number: 1
Connection: Loop through
LNB type: UNIVERSAL
Switch type: None
Dish mode: Fixed

**Mono block Universal LNB on fixed dish aligned for reception of ASTRA 19.2E and HOT BIRD satellites**



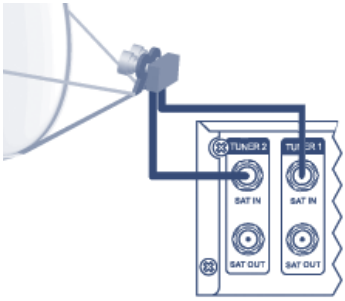

| **Channel setup menu settings** | **Channel setup menu settings** |
|---|---|
| Satellite: ASTRA 19.2E | Satellite: HOT BIRD |
| Dish number: 1 | Dish number: 2 |
| Dish Setup menu settings | Dish Setup menu settings |
| Dish number: 1 | Dish number: 2 |
| Connection: Loop through | Connection: Loop through |
| LNB type: UNIVERSAL | LNB type: UNIVERSAL |
| Switch type: DiSEqC 1.0 | Switch type: DiSEqC 1.0 |
| DiSEqC input: 1 | DiSEqC input: 2 |
| Dish mode: Fixed | Dish mode: Fixed |

**Twin Universal LNB on fixed dish aligned to ASTRA 19.2E**



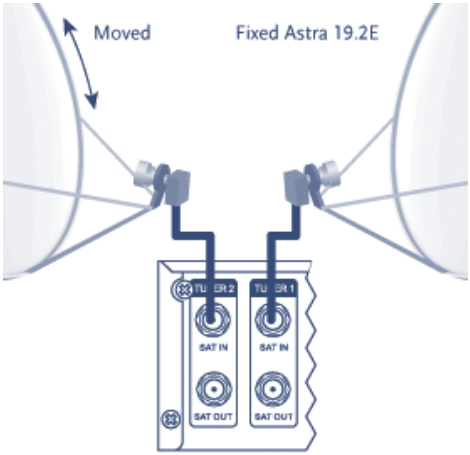

**Channel setup menu settings**
Satellite: ASTRA 19.2E
Dish number: 1
**Dish Setup menu settings**
Dish number: 1
Connection: Tuner 1&2
LNB type: UNIVERSAL
Switch type: None
Dish mode: Fixed

**Twin mono block Universal LNB on dish aligned for reception of ASTRA 19.2E and HOT BIRD**




| **Channel setup menu settings** | **Channel setup menu settings** |
|---|---|
| Satellite: ASTRA 19.2E | Satellite: HOT BIRD |
| Dish number: 1 | Dish number: 2 |
| **Dish Setup menu settings** | **Dish Setup menu settings** |
| Dish number: 1 | Dish number: 2 |
| Connection: Tuner 1&2 | Connection: Tuner 1&2 |
| LNB type: UNIVERSAL | LNB type: UNIVERSAL |
| Switch type: DiSEqC 1.0 | Switch type: DiSEqC 1.0 |
| DiSEqC input: 1 | DiSEqC input: 2 |
| Dish mode: Fixed | Dish mode: Fixed |

**Single Universal LNB on dish aligned to ASTRA 19.2E and single Universal LNB on motorized dish (GOTO X) to receive signals from HOT BIRD, ASTRA 23.5E...**




| **Channel setup menu settings** | **Channel setup menu settings** | **Channel setup menu settings** |
|---|---|---|
| Satellite: ASTRA 19.2E | Satellite: HOT BIRD | Satellite: ASTRA 23.5E |
| Dish number: 1 | Dish number: 2 | Dish number: 2 |
| **Dish Setup menu settings** | **Dish Setup menu settings** | **Dish Setup menu settings** |
| Dish number: 1 | Dish number: 2 | Dish number: 2 |
| Connection: Separated | Connection: Separated | Connection: Separated |
| Tuner: Tuner1 | Tuner: Tuner2 | Tuner: Tuner2 |
| LNB type: UNIVERSAL | LNB type: UNIVERSAL | LNB type: UNIVERSAL |
| Switch type: None | Switch type: None | Switch type: None |
| Dish mode: Fixed | Dish mode: GOTO X | Dish mode: GOTO X |

# ENVIRONMENTAL ISSUES

**STRONG is committed to reducing the impact of its products on the environment.**
**To maximise the benefits of our design enhancements, your co-operation is required.**

**Electronic product recycling**
Do not dispose of this product with your domestic rubbish.

At the end of its useful life, this product contains materials which when processed correctly can be recovered and recycled. By participating in the responsible recycling of this product you will be reducing the requirement for new raw materials and reducing the amount of material that would otherwise end up in landfill.
When you purchase a new, similar product your retailer may offer to take this old one off you. Alternatively, you can take it to your local recycling centre. Your retailer or local municipal authority will advise you of the collection facilities available for waste electronically products in your area. User of this service will be free to you.

Within the scope of the European legislation on Waste Electrical and Electronic Equipment (Directive 2002/96/EC valid as of August 2005) STRONG provides a recycling system free of charge for consumers to returning products after end of life. For more information about STRONG's environmental policy to you:

**www.strong.tv** - select "*About us*" and "*Environmental Policy*" from the submenu.

**Packaging**
When disposing of this product packaging, please ensure that it is recycled. Packaging material is to be depolluted in waste separation.

**Power Saving**
To save power and money, please put the product into standby mode when not in use. We also recommend disconnection from mains supply when not in use for longer periods of time.

**Batteries**
Do not dispose of the batteries from your handset with your domestic waste.

Where they are available, participate in your local municipal or retailer collection schemes for spent batteries. Batteries discarded in landfill sites or incinerated increases the chances of pollutants being dispersed into the atmosphere.

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